

WHAT IS CLAIMED IS:

1. A method of tuning a hands-free system in a mobile vehicle, the method  
5 comprising:
  - receiving a plurality of vehicle condition inputs;
  - creating a noise parameter based on the vehicle condition inputs; and
  - adjusting a noise suppression algorithm of the hands-free system based  
on the created noise parameter.
- 10 2. The method of claim 1 wherein receiving a plurality of vehicle condition inputs comprises:
  - sensing an external vehicle condition; and
  - transmitting the sensed external vehicle condition to the hands-free  
15 system.
3. The method of claim 1 wherein receiving a plurality of vehicle condition inputs comprises:
  - sensing a plurality of external vehicle conditions;
  - 20 combining the external vehicle conditions; and
  - transmitting the combined external vehicle conditions to the hands-free system.
4. The method of claim 1 wherein receiving a plurality of vehicle condition  
25 inputs comprises:
  - sensing a plurality of external vehicle conditions;
  - transmitting each of the plurality of external vehicle conditions to the  
hands-free system; and
  - combining the received external vehicle conditions.
- 30

5. The method of claim 1 wherein receiving a plurality of vehicle condition inputs comprises:

sensing an internal vehicle condition; and

5 transmitting the sensed internal vehicle condition to the hands-free system.

6. The method of claim 1 wherein receiving a plurality of vehicle condition inputs comprises:

10 sensing a plurality of internal vehicle conditions;

combining the internal vehicle conditions; and

transmitting the combined internal vehicle conditions to the hands-free system.

15 7. The method of claim 1 wherein receiving a plurality of vehicle condition inputs comprises:

sensing a plurality of internal vehicle conditions;

transmitting each of the plurality of internal vehicle conditions to the hands-free system; and

20 combining the received internal vehicle conditions.

8. The method of claim 1 wherein adjusting a noise suppression algorithm of the hands-free system based on the created noise parameter comprises:

combining the created noise parameter with an ambient noise parameter

25 of the noise suppression algorithm; and

modifying the noise suppression algorithm based on the combined parameters.

9. The method of claim 1 wherein the vehicle condition inputs comprise one or more input from the list consisting of external vehicle climate control input from a climate control unit, road-type input for road vehicle is traveling input based on vehicle global positioning coordinates input, vehicle audio-device input, vehicle engine input from an engine, vehicle speed input and combinations thereof.

10. A system for tuning a hands free system in a telematics unit, comprising:  
means for receiving a plurality of vehicle condition inputs;  
means for creating a noise parameter based on the vehicle condition inputs; and  
means for adjusting a noise suppression algorithm of the hands-free system based on the created noise parameter.

11. The system of claim 10, further comprising:  
means for sensing a plurality of external vehicle conditions;  
means for transmitting each of the plurality of external vehicle conditions to the hands-free system; and  
means for combining the received external vehicle conditions.

12. A computer readable medium storing a computer program comprising:  
computer readable code for receiving a plurality of vehicle condition inputs;  
computer readable code for creating a noise parameter based on the vehicle condition inputs; and  
computer readable code for adjusting a noise suppression algorithm of the hands-free system based on the created noise parameter.

13. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

5 computer readable code for sensing an external vehicle condition; and  
computer readable code for transmitting the sensed external vehicle condition to the hands-free system.

14. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

10 computer readable code for sensing a plurality of external vehicle conditions;  
computer readable code for combining the external vehicle conditions; and  
computer readable code for transmitting the combined external vehicle conditions to the hands-free system.

15

15. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

computer readable code for sensing a plurality of external vehicle conditions;  
20 computer readable code for transmitting each of the plurality of external vehicle conditions to the hands-free system; and  
computer readable code for combining the received external vehicle conditions.

25 16. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

computer readable code for sensing an internal vehicle condition; and  
computer readable code for transmitting the sensed internal vehicle condition to the hands-free system.

30

17. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

- computer readable code for sensing a plurality of internal vehicle
- 5 conditions;
- computer readable code for combining the internal vehicle conditions; and
- computer readable code for transmitting the combined internal vehicle conditions to the hands-free system.

10 18. The medium of claim 12 wherein receiving a plurality of vehicle condition inputs comprises:

- computer readable code for sensing a plurality of internal vehicle
- conditions;
- computer readable code for transmitting each of the plurality of internal
- 15 vehicle conditions to the hands-free system; and
- computer readable code for combining the received internal vehicle conditions.

19. The medium of claim 12 wherein adjusting a noise suppression algorithm

20 of the hands-free system based on the created noise parameter comprises:

- computer readable code for combining the created noise parameter with an ambient noise parameter of the noise suppression algorithm; and
- computer readable code for modifying the noise suppression algorithm based on the combined parameters.

25 20. The medium of claim 12 wherein adjusting a noise suppression algorithm of the hands-free system based on the created noise parameter comprises:

- computer readable code for combining the created noise parameter with an ambient noise parameter of the noise suppression algorithm; and
- 30 computer readable code for modifying the noise suppression algorithm based on the combined parameters.